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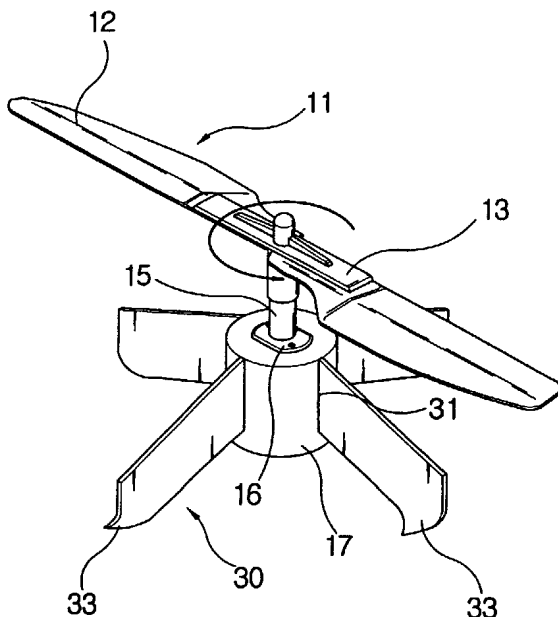
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(54) Title: MICRO AERIAL VEHICLE



(57) Abstract: The purpose of this invention is to provide an ultra-miniature aircraft which is able to perform 'Vertical Take-off and Landing (VTOL)' and maintaining altitude when the vehicle is moving or when the horizontal velocity of a vehicle is at 0 by getting life only from a single rotor's rotation, and without using separate stabilizers such as a tail-rotor or a gyro. To fulfill the above purpose, this invention comprises: several blades in air-foil shape that are placed in calculated angle and space; hubs that connect the blade to with a body of a vehicle; a rotor which gives lifting force with its spin; a spin-able axle which its vertical hem is bound to the hubs; a rotor drive that is needed to spin the rotor; a vehicle body that is placed right under the rotor in order to fly from the lift that is obtained by revolutions of the rotor; fixed-wings that are placed in certain angle and space around the outside of the vehicle body in order to reduce a reaction torque, which affects the body to turn the opposite direction of the rotor, from the rotor's movement; and a reaction-torque-counterbalancing-system on each of the above fixed-wings that offsets the reaction torque aggressively.

INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

IPC7 A63H 27/127

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC A63H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Patents and applications for inventions since 1975
Korean Utility models and applications for Utility models since 1975
Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,065,873 A (ROBERT ALEXANDER JONES) 3 January 1978, see the whole document.	1, 2, 4
Y		6, 7
Y	JP 3036829 U (KYOUSHOU INC.) 12 February 1997 See the whole document	1, 2, 4
Y	KR 2002-20562 A (SHIN, DUCK HO) 13 March 2002 See the whole document	6, 7
A	KR 1999-14324 U (UHAN HITECH INC.) 26 April 1999 See the whole document	1



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* Special categories of cited documents:

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